

# 4<sup>th</sup> Grade

## Main Rangefinder 3

Your teacher will read the entire test to you before you begin.  
Do not use a calculator on this assessment.

- 1 The local zoo keepers counted their animals and found they had 4 tigers, 27 deer, 105 birds, 31 goats, 5 bears and 18 monkeys.

- a. How many animals do the zoo keepers have altogether? Show or explain how you found your answer.

the zoo keeper has

4 tigers	
27 deer	
105 birds	
31 goats	
5 bears	
18 monkeys	
<hr/>	
189	189

- b. How many more birds than deer do the zoo keepers have right now? Show or explain how you found your answer.

105 birds
- 27 deer
<hr/>
78

more birds than deer

- c. The zoo keepers want to triple the number of goats. How many goats will they have after they triple the number? Show or explain how you found your answer.

they will have 93 goat after wards

31	
31	
+ 31	
<hr/>	
93	

- d. The zoo needs to divide the monkeys into two cages. How many monkeys will they put in each cage? Show or explain how you found your answer.

09 monkeys in each cage

2	18 monkeys
<hr/>	
0	
18	
<hr/>	
0	

Adaptable  
processes

Understanding  
of situations

Read problems 2, 3, 4, and 5 on this and the next two pages. Select three problems to answer. Answer ALL of the parts of the three problems you select to answer. Cross out the one problem that you do not choose to answer.

- 2 Jane and Sam have messy rooms. They cleaned their rooms on December 31<sup>st</sup>. Then they set up a cleaning schedule for January. Jane will clean her room every 3<sup>rd</sup> day. Sam will clean his room every 5<sup>th</sup> day.

- a. On which dates in January will **Jane** clean her room? *Show or explain how you found your answer.*

**January**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- b. On which dates in January will **Sam** clean his room? *Show or explain how you found your answer.*

- c. Who will clean their room the most days? *Show or explain how you found your answer.*

- d. On which date(s) in January will they clean their rooms on the **same day**? *Show or explain how you found your answer.*

Effective  
problem-solving  
strategies

Anna does chores each day after school. She feeds the animals for 20 minutes, picks up eggs for 5 minutes, and cleans out the barn for 15 minutes.

How long will Anna spend doing her chores? Show or explain how you found your answer.

Anna spends 40 minutes doing her chores

20	animal feeding
15	cleaning barn
5	picking up eggs
<hr/>	
40	



- b. If Anna came home from school and started on her chores at 3:25, what time should she be finished with her chores? Show or explain how you found your answer.

she would finish at 4:05.

3:25 time she starts  
+ 40 time for chores  

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4:05

- c. On Saturday Anna has the same chores to do. If Anna wants to finish her chores by 1:30, what time should she start doing her chores? Show or explain how you found your answer.

Anna should start at 12:40

1:30 time she plans to finish  
- 40 minutes to get done  

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12:40

Occasional  
computational or  
surface errors

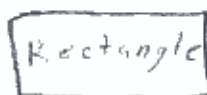
- 4 a. Draw and name five different geometric shapes.



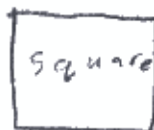
circle



triangle



Rectangle



Square



Pentagon

- b. Which two shapes are the most alike and why?

Rectangle and square, the both have four corners and four right angles

Understanding  
of situations

- c. Which two shapes are the most different and why?

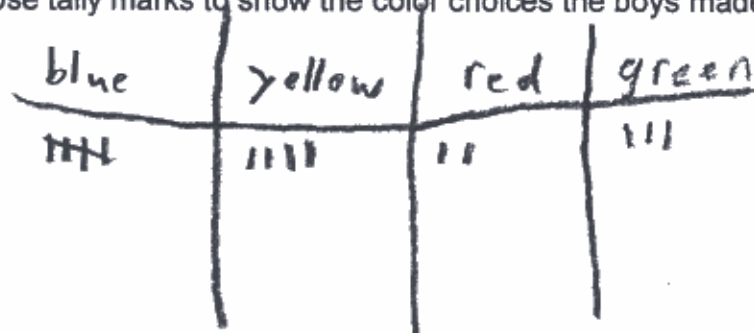
circle and square, circle has no right angles or corners

Effective  
mathematical  
vocabulary

- 5 Jon asked all of the boys in his class to choose their favorite color. He recorded the responses in a notebook. The results are shown below.

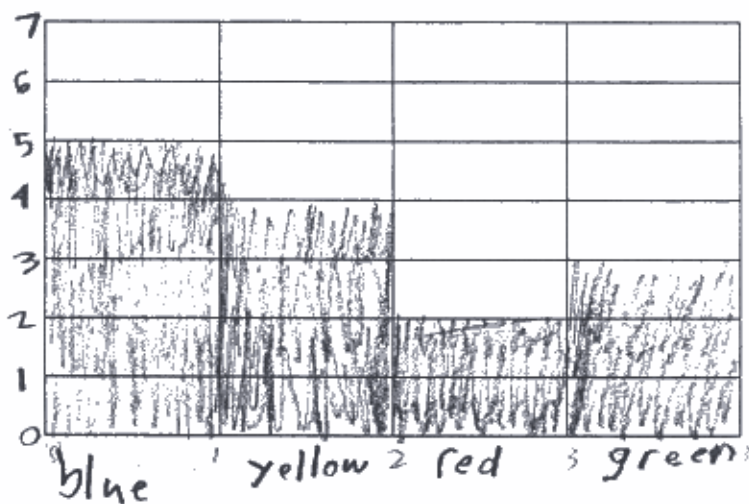
Boy's Name	Color	Boy's Name	Color
James .....	blue +	Josh .....	yellow -
Chris .....	blue -	Casey .....	red -
Steve .....	yellow -	Bob .....	green -
Bill .....	blue -	Tom .....	green +
Mike .....	red -	Vale .....	blue - 5
Shawn .....	yellow -	Ryan .....	yellow -
Matt .....	blue - 4	Jack .....	green -

- a. Use tally marks to show the color choices the boys made.



Adequate  
solutions and  
processes

- b. Use Jon's information to make a graph. Show the number of boys who chose each color.



Well-defined  
structure